

Sequence alignment: Beta amylase form US 09/744825 and betaamylase from sweet potato (Yoshida, Acc: D12882.1)

Only coding sequences are compared.

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Alignment **bataamy.msf** am 30.4.2003 → Output v. **bataamy** kann markiert werden und mit Copy-Paste in Word 2000 (Nicks Compi) hineingefügt werden.

ClustalW 1.8 Parameters → fast pairwise alignment followed by multiple alignment	MView Parameters (output)
ktuple=2 topdiags=4 pairgap=5 gapopen=10 gapext=5 maxdiv=40 transitions: unweighted ruler: on coloring: identity threshold: 80 width: 50 consensus: off consensus coloring: identity consensus threshold: 100 consensus gaps: on consensus ref: 1 colormap: D_plain colorfile: -colorfile D_plain.map cons. colormap: -con_colormap D_plain	dnamatrix: IUB consensus ignore: singleton

Identities computed with respect to: (1) US09744852

Colored by: identity + property



351 : 400
 US09744852 100.0% TGATGCCGTTGGATAGTGTGAAAATGGATCATACTGT--GAATACGAAG
 Yoshida 54.9% TGCTCCCGTTGGAGTGTGAATGCCGACAATGTTTCCGGACAAACAG

 401 : 450
 US09744852 100.0% AAGGCGATGAATGCCGAGTTACAGGCCTTGAAGAGCGCCGGTGTG-GAAG
 Yoshida 54.9% AAGGTG-GAAAGATGAGCTGA-AGCAGGTGAA-AGCAGGGGGTGCATG

 451 : 500
 US09744852 100.0% GGATTATGATGGATGTGTGGTGGGGATTGGTGGAGAGAGATGCCGCCGG
 Yoshida 54.9% GGGTGTGATGGATGTGTGGTGGGGATCATCGAGGCCAAGGGCCAAG

 501 : 550
 US09744852 100.0% GAGTATAATTGGGGCGGTTATGCTGAGCTTATGAAATGGCGAAAAAAC
 Yoshida 54.9% CAGTACGATTGGTCTGCTTACAGGGAGTTATGCCAGTGTGGTAAGAAATG

 551 : 600
 US09744852 100.0% TGGACTCAAAGTTCAAGCTGTGATGTCTTCCATCAATGTGGTGGAAACG
 Yoshida 54.9% TGGGCTCAAAATCCAGGCGATCATGTCTTICACCAATGCCGCCGCAATG

 601 : 650
 US09744852 100.0% TCGGTGATTCCCTGCACGATCCCTCTTCCAAGGTGGGTTGGTGGAGATG
 Yoshida 54.9% TCGGCGACGCCGTCATCCCATCCCTCAATGGATTCTCAAATCGGC

 651 : 700
 US09744852 100.0% GAGAAGGATCCAGATCTGCATAACACAGATCACTGGGAAGGGAGGAATT
 Yoshida 54.9% GACAAAAACCCCGATACTTCTACACCCAACCGGGCCGTAACCGAAACCA

 701 : 750
 US09744852 100.0% TGAATATGATTCGCTGGTTGCGATACACTTCAGTTCTAAAGGAAGGA
 Yoshida 54.9% GGACTACCTCTCTCGCGTCGACAATCAACGTCTTCCACGGCCGCA

 751 : 800
 US09744852 100.0% CTCCTGTCCA-ATGCTATTCTGATTCATGAGAGGGTTAGAGATAGATT
 Yoshida 54.9% CCGCTCTCGAGATG-TACAGGGATTTCATGAAAGTTCAAGGATA-ATA

 801 : 850
 US09744852 100.0% TGAGAATCTCCT---AGC-TGACACCATTTGTGAAATTCAAGTCGGGATG
 Yoshida 54.9% TGGCAGACTTTTGAAGGCTGGAGATATTGTAACATTGAAAGTAGGGTGT

 851 : 900
 US09744852 100.0% GGTCCAGCTGGAGAGCTCCGTTATCCATCCTATCCGGAAAAGATGGAGT
 Yoshida 54.9% GGGGCTGCCGGAGAGCTTCGCTATCCCTCGTATCCCGAGA-CTCAAGG

 901 : 950
 US09744852 100.0% ATGGAAATTCCCTGGAATTGGTGCTTTCAAGTGTATGACAAGTACATGA
 Yoshida 54.9% ATGGGTTTTCGGCATCGGAGAATTTCAGTGTATGACAAGTACATGG

 951 : 1000
 US09744852 100.0% TCAGTAG-CTTACAGGGTGCAGCAGAAGCTT-TGGTAAGCCTGAATGGG
 Yoshida 54.9% TG-GCAGACTGGAAGGAGGCTGT-GAAGCAAGCTGCCAATCCAGA-TTGG

 1001 : 1050
 US09744852 100.0% GACACACCGGTCCAACCGATGCTGGTCAGTACAACAATTGCCAGAAGAT
 Yoshida 54.9% GAGATGCCGG-AAAAGGCACCGGGACTTACAACGACACGCCGGACAAG

 1051 : 1100
 US09744852 100.0% ACCAACTTTCAAGAAGGAAGGTGGATGGGATAGTCATAATGGGG
 Yoshida 54.9% ACGGAATTCTTC-GCCCAACGGGACTTACAAGACCG-ATATGGGCA

 1101 : 1150
 US09744852 100.0% -GTTCTTCCACTTGGTATTCTGAGATGCTTTGAACCATGGTGAGAGG
 Yoshida 54.9% AGTTTTCTCTGACCTGGTACTCCAACAAGCTCATCCATGCCGATCAA

 1151 : 1200
 US09744852 100.0% ATACTGCAATCAGCCAAGGCGATATCGAGGACAAGGGTGTAAAGATTTC
 Yoshida 54.9% GTCCTCGAAGAACCAAAAGTTTCGTTGGCTCCCGCTAACATAGC

 1201 : 1250

US09744852	100.0%	AGTTAAGATTGCAGGTATTCACTGGCACTATGGAACAAGGTC	-CCATGC
Yoshida	54.9%	TGCCAAAGTTCTGGAAATTCACTGGTGTAA	-CAACCATGTGAGCCATGC
1251			
US09744852	100.0%	CCCTGAGCTGACCGCTGGATACTACAAACAC	-CCGTAACCGAGATGGTTA
Yoshida	54.9%	GGCGGAGCTACCCGCCGGATCTACAAATGTGGCGGGAA	-GAGACGGTTA
1301			
US09744852	100.0%	CCTTCCCCTCGCCCAAATGCTTGCCCCGCCACGGTGCAGTTTCAACTTCA	: 1350
Yoshida	54.9%	TGGCCCTATTGCCAGGATGCTGGCAAGGCACCATGCCACTCTCAATTTC	
1351			
US09744852	100.0%	CATGTGTTGAGATGCGTGACCACGAGCAGCCACAAGATGCACTATGTGCA	4 1400
Yoshida	54.9%	CTTGCCTTGAGATGAGAGACTCGAACAGCCTGCCAGGGCAAGAGTGCT	
1401			
US09744852	100.0%	CCTGAGAAGTTGGTTAGGCAAGTGGCTTTAGCAACTCA	: 1450
Yoshida	54.9%	GGAAGCTCAAGCCTAACAGGTG	-TTGAGCAGCGGATGGAAAGAGTAT
1451			
US09744852	100.0%	TTCCACTTGCTGGGGAGAATGCATTGCCACGATACTGATTATGCACA	5 1500
Yoshida	54.9%	ATCGATGTGGCAGGTGAGAATGCACTGCCAAGATACTGATGCCACGGCATA	
1501			
US09744852	100.0%	TGAACAGATCCTTCA-AGCATTCA	: 1550
Yoshida	54.9%	-CATTGAATATCAACCGATCAATCAG	
1551			
US09744852	100.0%	CAACCAAATACTTCTGAACCTCAGGCCAACCGCGTCAACCTAACGGCC	6 1600
Yoshida	54.9%	CTCCCA-AGCTCAAGATGTCCGGCTTGACATATCTCCGTTTCGCGACGA	
1601			
US09744852	100.0%	CCTATTCCATCCTGATAACTGGAGGCGATTGCGCTTGTGAAGAAAA	: 1650
Yoshida	54.9%	TCTGTTACAGACAGACAACCTCGAATCTTCAAGAAATTGTCAGAAAGA	
1651			
US09744852	100.0%	TGAAAGAAGGAAAAGACGCAAACA	: 1700
Yoshida	54.9%	AATGCCGGAA-CAAGTAGAGAGG	
1701			
US09744852	100.0%	TGGACGCTGATCTGGATCCATCCCCAACGCTATCTCTCCCGCTGTTG	
Yoshida	54.9%	GAG-AGATCAAACCTCGGCCATCACCATTGATGAACTGATGCCAGGCCACC	
1751			
US09744852	100.0%	AGCTGCAGCTGCCCT	: 1750
Yoshida	54.9%	-CATGCACTAA	
1801			
US09744852	100.0%	AAAGCTAGCAGGCCATTCCATGGTATGACGTACAGACATGCCGGTGGAA	: 1800
Yoshida	54.9%	TGGCTCAAACCGTTGATTGA	
1801] 1822			

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